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0905- #10



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RAW SEQUENCE LISTING

DATE: 09/12/2002

PATENT APPLICATION: US/09/955,259B

TIME: 12:26:12

Input Set : A:\52071-4.ST25.txt

Output Set: N:\CRF4\09122002\I955259B.raw

3 <110> APPLICANT: Annibali, Nestor
 5 <120> TITLE OF INVENTION: Expression of a Human Insulin Precursor In P. Pastoris
 7 <130> FILE REFERENCE: 52071.4
 9 <140> CURRENT APPLICATION NUMBER: US 09/955,259B
 C- > 10 <141> CURRENT FILING DATE: 2002-08-30
 12 <160> NUMBER OF SEQ ID NOS: 26
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 36
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Artificial Sequence
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: Synthetic Primer
 24 <400> SEQUENCE: 1
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 29 <211> LENGTH: 45
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Synthetic Primer
 36 <400> SEQUENCE: 2
 37 ggtcttgggt gtgtagaaga agcctcgttc cccgcacact aggta 45
 40 <210> SEQ ID NO: 3
 41 <211> LENGTH: 39
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial Sequence
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: Synthetic Primer
 48 <400> SEQUENCE: 3
 49 ttgtgaacc aacacctgtg cggctcacac ctggtggaa 39
 52 <210> SEQ ID NO: 4
 53 <211> LENGTH: 45
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Synthetic Primer
 60 <400> SEQUENCE: 4
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 64 <210> SEQ ID NO: 5
 65 <211> LENGTH: 52
 66 <212> TYPE: DNA
 67 <213> ORGANISM: Artificial Sequence

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70 <223> OTHER INFORMATION: Synthetic Primer
72 <400> SEQUENCE: 5
73 ctagttgcag tagttctcca gctggttagag ggagcagatg ctggtacagc at          52
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77 <211> LENGTH: 162
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: complete synthetic insulin precursor obtained by PCR using
human
83     insulin sequence as original source
85 <400> SEQUENCE: 6
86 ttgtgaacc aacacctgtg cggctcacac ctggtggaag ctctctacct agtgtgcggg      60
88 gaacgaggct tcttctacac acccaagacc aagcgtggca ttgtggaaca atgctgtacc    120
90 agcatctgct cctctacca gctggagaac tactgcaact ag                          162
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 50
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Synthetic Primer
101 <400> SEQUENCE: 7
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105 <210> SEQ ID NO: 8
106 <211> LENGTH: 50
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Synthetic Primer
113 <400> SEQUENCE: 8
114 agaagtacaa cattgttcaa cgatacctct cttagtcttt ggagtgtaga          50
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118 <211> LENGTH: 33
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Synthetic Primer
125 <400> SEQUENCE: 9
126 acacttgtgt ggttctcaact tggttgaagc ttt                          33
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130 <211> LENGTH: 66
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Synthetic Primer
137 <400> SEQUENCE: 10
138 ttactcgagt tagttacagt agttttccaa ttggtacaaa gaacagatag aagtacaaca    60
140 ttgttc                                          66
143 <210> SEQ ID NO: 11

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145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
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156 <211> LENGTH: 162
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: synthetic insulin precursor, obtained by PCR using human
insulin
162     sequence as original source
164 <400> SEQUENCE: 12
165 ttgtttaacc aacacttgtg tggttctcac ttggttgaag ctttgtactt ggtttgtggt 60
167 gaaagagggt tcttctacac tccaaagact aagagaggta tcgttgaaca atgttggtact 120
169 tctatctgtt ctttgtacca attggaaaac tactgtact aa 162
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173 <211> LENGTH: 56
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Synthetic Primer
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184 <210> SEQ ID NO: 14
185 <211> LENGTH: 68
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Synthetic Primer
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195 actgctca 68
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 71
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Synthetic Primer
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209 gtttcgtctt c 71
212 <210> SEQ ID NO: 16
213 <211> LENGTH: 66
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:

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218 <223> OTHER INFORMATION: Synthetic Primer
220 <400> SEQUENCE: 16
221 gatgaacaac aaaccattat tagtagagtt agagaaaggc aaaacagcaa cgtcgaagtc      60
223 accttc                                                                    66
226 <210> SEQ ID NO: 17
227 <211> LENGTH: 72
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Synthetic Primer
234 <400> SEQUENCE: 17
235 ccgctcgaga gaaacaccct cttccttagc agcgatagaa gcgatagtag tgttgatgaa      60
237 caacaaacca tt                                                                72
240 <210> SEQ ID NO: 18
241 <211> LENGTH: 267
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: synthetic sequence of alpha factor from S. cerevisiae,
obtained b
247 y PCR
249 <400> SEQUENCE: 18
250 atgagattcc catctatctt cactgctggt ttgttcgctg cttcttctgc tttggctgct      60
252 cctgttaaca ctactactga agacgaaact gctcaaatcc cagctgaagc ggttatcggt      120
254 tactctgact tggaagggtga cttcgacggt gctgttttgc ctttctctaa ctctactaat      180
256 aatggtttgt tgttcatcaa cactactatc gcttctatcg ctgctaagga agaggggtgtt      240
258 tctctcgaga agagagaggc tgaagca                                              267
261 <210> SEQ ID NO: 19
262 <211> LENGTH: 44
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Synthetic Primer
269 <400> SEQUENCE: 19
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273 <210> SEQ ID NO: 20
274 <211> LENGTH: 32
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Synthetic Primer
281 <400> SEQUENCE: 20
282 ttagaattcc cgggtctagt tgcagtagtt ct                                      32
285 <210> SEQ ID NO: 21
286 <211> LENGTH: 30
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Synthetic Primer
293 <400> SEQUENCE: 21

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294 tcactcgagc ggtctagttg cagtagttct 30
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298 <211> LENGTH: 28
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Synthetic Primer
305 <400> SEQUENCE: 22
306 gtcgtggttt ctcatagtag agtggaca 28
309 <210> SEQ ID NO: 23
310 <211> LENGTH: 18
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Synthetic Primer
317 <400> SEQUENCE: 23
318 ggatcatcact gtcctatc 18
321 <210> SEQ ID NO: 24
322 <211> LENGTH: 19
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Synthetic Primer
329 <400> SEQUENCE: 24
330 agcagcacca gtggaagat 19
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 21
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
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339 <223> OTHER INFORMATION: Synthetic Primer
341 <400> SEQUENCE: 25
342 gactggttcc aattgacaag c 21
345 <210> SEQ ID NO: 26
346 <211> LENGTH: 4
347 <212> TYPE: PRT
348 <213> ORGANISM: Saccharomyces cerevisiae
350 <400> SEQUENCE: 26
352 Lys Arg Glu Ala
353 1

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VERIFICATION SUMMARY

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date